



**Arbovirus Surveillance Program**  
**Massachusetts Department of Public Health**  
**Infectious Diseases Laboratory Division**  
**State Laboratory Institute**

**Date:** September 15, 2000

Seventy-three additional birds, found dead between September 5 and September 12 were confirmed positive for West Nile Virus (WNV), bringing the total number of WNV-positive birds to 176. There were 16 towns that had WNV-infected birds reported for the first time this year: Belmont (4), Braintree (3), Cohasset (2), East Bridgewater (1), Fall River (1), Hull (1), Lynn (1), Marion (1), Middleton (1), New Bedford (1), Plympton (1), Randolph (1), Salem (2), Swampscott (2), Walpole (1) and Weymouth (1). The number of WNV-infected birds reported this week in other towns where infected birds have been found previously are: Brookline (16), Boston (9), Middleboro (8), Newton (6), Holliston (3), Hingham (2), Peabody (2), and one each in Arlington, Framingham and Tewksbury.

The total number of WNV-infected birds by location to date is Brookline (52); Boston (31); Newton (14); Cambridge (7), Arlington (2), Belmont (4), Billerica (3), Braintree (3), Cohasset (2), Framingham (2), Hingham (3), Holliston (6), Middleboro (11), Peabody (6), Plympton (2), Salem (2), Swampscott (2) Tewksbury (2) and one each from Brockton, East Bridgewater, Fall River, Halifax, Hopkinton, Hull, Lynn, Marion, Middleton, Millville, Medford, Natick, Needham, New Bedford, Randolph, Seekonk, South Hadley, Upton, Walpole, Waltham, Wellesley, and Weymouth.

Mosquito trapping continued at the sixteen regular long-term sites in Plymouth, Bristol, Norfolk, Middlesex and eastern Worcester Counties. Sites in Brookline and Boston were also trapped. In addition, Mosquito Control Projects throughout the state continue to send in mosquitoes for testing. Over 1900 mosquito pools collected from sites throughout Massachusetts have been tested. Two pools of *Culiseta melanura* collected on 9/9 in Easton and Brockton, and one collected 9/7 in Boston, as well as one pool of *Aedes vexans* collected 9/7 in Boston, tested positive for eastern equine encephalitis virus (EEEV). A season total of 10 EEEV isolates have been found. To date 4 WNV isolates have also been found, 3 in Brookline and one in Boston.

This week one patient from Plymouth County tested positive for EEEV infection. This is the first EEEV case in Massachusetts since 1997. Mosquito control and additional trapping have been implemented in the area around the positive case. To date, specimens have been submitted from 195 patients for testing. One-hundred and seventy-seven have tested negative for arbovirus infections and 17 are pending. Weekly arbovirus reports and informational material on WNV and EEEV can be accessed at <http://www.state.ma.us/dph>.

**Total Number of Mosquitoes Analyzed: 24,410**

## Virus Isolates in Mosquito Pools:

<b>Virus</b>	<b>Mosquito</b>	<b>Site</b>	<b>Collection Date</b>
1 HJV	<i>Culex pipiens</i>	Boston	6/29/00
1 EEEV	<i>Culiseta melanura</i>	Easton	7/23/00
1 EEEV	<i>Culiseta melanura</i>	Boston	7/24/00
<b>1 WNV</b>	<b><i>Culex spp.</i></b>	Brookline	8/08/00
1 EEEV	<i>Culiseta melanura</i>	Foxboro	8/14/00
<b>1 WNV</b>	<i>Culex spp.</i>	Boston	8/20/00
<b>1 WNV</b>	<i>Culex restuans</i>	Brookline	8/25/00
<b>1 WNV</b>	<i>Aedes triseriatus</i>	Brookline	9/02/00
1 EEEV	<i>Culiseta melanura</i>	Hanover	9/02/00
1 HJV	<i>Culiseta melanura</i>	Hanover	9/02/00
1 HJV	<i>Culiseta melanura</i>	Carver	9/02/00
1 EEEV	<i>Culiseta melanura</i>	Easton	9/03/00
1 EEEV	<i>Culiseta melanura</i>	Foxboro	9/03/00
1 HJV	<i>Culiseta melanura</i>	New Bedford	9/03/00
1 EEEV	<i>Culiseta melanura</i>	Boston	9/07/00
1 EEEV	<i>Aedes vexans</i>	Boston	9/07/00
1 HJV	<i>Culiseta melanura</i>	Westboro	9/09/00
2 HJV	<i>Culiseta melanura</i>	Halifax	9/09/00
1 EEEV	<i>Culiseta melanura</i>	Easton	9/09/00
1 EEEV	<i>Culiseta melanura</i>	Brockton	9/09/00

**Total: 4 WNV, 10 EEEV, 7 HJV**

# *Mosquito Surveillance Weekly Test Report*

**09/09/00 to 09/15/00**

*Mosquito Species\**

*Virus in Mosquito Pools\*\**

<i>Site</i>	<i>Cs mel</i>	<i>Cq per</i>	<i>Ae can</i>	<i>Ae vex</i>	<i>Cx pip</i>	<i>Cx other</i>	<i>Other Sp</i>	<i>EEEV</i>	<i>HJV</i>	<i>WNV</i>
Bedford	0	0	0	0	0	0	0	0	0	0
Boston	0	0	0	0	0	0	0	0	0	0
Brockton	25	0	0	2	0	1	0	1	0	0
Brookline	0	0	0	0	0	0	0	0	0	0
Canton	7	0	3	1	0	0	0	0	0	0
Carver	54	10	5	0	0	0	0	0	0	0
Easton	323	0	31	1	0	4	10	1	0	0
Foxboro	26	2	0	2	0	0	0	0	0	0
Greenfield	0	0	0	0	0	0	0	0	0	0
Halifax	268	0	0	0	0	0	0	0	2	0
Hanover	130	0	1	0	0	0	0	0	0	0
Holliston	23	0	2	1	0	0	0	0	0	0
Hopkinton	0	0	0	0	0	0	0	0	0	0
Kingston	64	0	0	0	0	0	0	0	0	0
Lakeville	21	0	1	0	13	0	1	0	0	0
Nantucket	0	0	0	0	0	0	0	0	0	0
New Bedford	80	0	1	0	0	0	3	0	0	0
Northampton	0	0	0	0	0	0	0	0	0	0
Norton	0	0	0	0	0	0	0	0	0	0
Pittsfield	0	0	0	0	0	0	0	0	0	0
Raynham	23	0	0	1	0	0	1	0	0	0
Reading	0	0	0	0	0	0	0	0	0	0
Rehoboth	28	0	0	0	0	0	1	0	0	0
South Hadley	0	0	0	0	0	0	0	0	0	0
Springfield	0	0	0	0	0	0	0	0	0	0
Upton	0	0	0	0	0	0	0	0	0	0
Walpole	16	4	2	3	0	0	0	0	0	0
Westboro	36	0	2	13	0	0	0	0	1	0
Westport	76	0	4	0	0	0	0	0	0	0
<b><i>Total for DPH</i></b>	<b>1200</b>	<b>16</b>	<b>52</b>	<b>24</b>	<b>13</b>	<b>5</b>	<b>16</b>	<b>2</b>	<b>3</b>	<b>0</b>

# *Mosquito Surveillance Cumulative Test Report      05/31/00 to 09/15/00*

## *Mosquito Species\**

## *Virus in Mosquito Pools\*\**

<i>Site</i>	<i>Cs mel</i>	<i>Cq per</i>	<i>Ae can</i>	<i>Ae vex</i>	<i>Cx pip</i>	<i>Cx other</i>	<i>Other Sp</i>	<i>EEEV</i>	<i>HJV</i>	<i>WNV</i>
Bedford	0	1	0	400	0	21	11	0	0	0
Boston	1	0	0	0	582	615	7	0	0	0
Brockton	169	24	17	9	18	14	0	1	0	0
Brookline	0	0	0	1	71	64	7	0	0	2
Canton	144	92	30	22	18	14	0	0	0	0
Carver	450	350	35	2	15	4	0	0	1	0
Easton	1386	23	335	12	78	81	11	3	0	0
Foxboro	317	88	54	12	36	9	0	2	0	0
Greenfield	2	2	0	5	42	12	3	0	0	0
Halifax	1453	27	63	4	56	32	12	0	2	0
Hanover	423	7	9	33	16	6	1	1	1	0
Holliston	356	8	88	8	14	23	0	0	0	0
Hopkinton	0	0	1	13	143	341	1	0	0	0
Kingston	439	43	10	3	53	19	0	0	0	0
Lakeville	75	37	8	0	55	20	1	0	0	0
Nantucket	0	0	0	0	76	9	0	0	0	0
New Bedford	719	17	25	6	89	31	4	0	1	0
Northampton	1	3	18	250	30	2	2	0	0	0
Norton	89	2	1	32	177	24	0	0	0	0
Pittsfield	0	0	0	0	89	21	2	0	0	0
Raynham	119	24	22	16	20	13	16	0	0	0
Reading	0	0	0	0	0	55	0	0	0	0
Rehoboth	89	7	65	11	12	4	1	0	0	0
South Hadley	1	1	0	4	236	48	0	0	0	0
Springfield	19	4	7	17	60	35	0	0	0	0
Upton	0	0	0	0	0	57	1	0	0	0
Walpole	174	328	42	83	18	4	8	0	0	0
Westboro	341	33	63	31	62	18	6	0	1	0
Westport	158	1	38	8	2	18	2	0	0	0
<b><i>Total for DPH</i></b>	<b>6925</b>	<b>1122</b>	<b>931</b>	<b>982</b>	<b>2068</b>	<b>1614</b>	<b>96</b>	<b>7</b>	<b>6</b>	<b>2</b>

## ***Mosquito Control Districts Cumulative Test Report through 9/15/00***

	<b><i>Mosquito Species*</i></b>						<b><i>Virus in Mosquito Pools**</i></b>			
Berkshire County MCD	0	0	0	0	0	0	11	0	0	0
Bristol County MCD	205	3	3	17	950	205	5	0	0	0
Cape Cod MCD	0	0	0	0	0	2899	0	0	0	0
Central MA MCD	0	0	4	0	201	226	13	0	0	0
CMMCP	0	0	0	0	66	253	4	0	0	0
East Middlesex MCD	0	0	2	0	311	1487	5	0	0	1
Essex County MCD	0	0	0	0	85	9	2	0	0	0
Norfolk County MCD	0	0	0	0	249	32	1	0	0	0
Northeast MCD	0	0	0	0	31	2	0	0	0	0
Plymouth County MCD	0	7	110	38	216	151	5	0	0	0
Suffolk County MCD	140	251	107	900	889	575	2	3	1	1
<b><i>Total for MCD</i></b>	<b>345</b>	<b>261</b>	<b>226</b>	<b>955</b>	<b>2998</b>	<b>5839</b>	<b>48</b>	<b>3</b>	<b>1</b>	<b>2</b>

### **\*Mosquito species name abbreviations:**

Cs mel = *Culiseta melanura*  
 Cq per = *Coquillettidia perturbans*  
 Ae can = *Aedes canadensis*  
 Ae vex = *Aedes vexans*  
 Cx pip = *Culex pipiens*

### **\*\*Virus name abbreviations:**

EEEV = Eastern Equine Encephalitis Virus  
 HJV = Highlands J Virus  
 WNV = West Nile Virus